

WHAT IS CLAIMED IS:

1. A method of designing a mask, comprising:

applying a liquid crystal display unit panel mask to a base substrate, the liquid crystal display unit panel mask including a first region and a second region;

providing a first mask pattern within the first region, the first mask pattern for forming at least one first unit panel within the base substrate; and

providing a second mask pattern within the second region, the second mask pattern for forming at least one second unit panel within the base substrate, wherein the at least one second unit panel is formable to a different size than the at least one first unit panel.

2. The method of claim 1, further comprising dividing the first mask pattern into a repeat region and a non-repeat region.

3. The method of claim 1, wherein a size of the first region is substantially the same as the size of the second region.

4. The method of claim 1, wherein a size of the first region is greater than a size of the second region.

5. The method of claim 1, wherein a size of the first region is less than a size of the second region.

6. The method of claim 1, wherein the at least one first unit panel includes a plurality of first unit panels.

7. The method of claim 1, wherein the at least one second unit panel includes a plurality of second unit panels.

8. The method of claim 1, wherein the at least one first unit panel is larger than the first mask pattern.

9. The method of claim 1, wherein the second region is arranged in portions of the mask not occupied by the first region.

10. A method fabricating a unit panel, comprising:
providing a base substrate having a first region and a second region;
forming at least one first unit panel of an LCD panel of a first size within the first region; and
forming at least one second unit panel of an LCD panel of a second size within the second region, wherein the second size is different from the first size.

11. The method of claim 10, wherein the first region is larger than the second region.

12. The method of claim 10, wherein the first region is smaller than the second region.

13. The method of claim 10, wherein the first size is greater than the second size.

14. The method of claim 10, wherein the at least one first unit panel is oriented at about 0° with respect to the at least one second unit panel.

15. The method of claim 10, wherein the at least one first unit panel is oriented at about 90° with respect to the at least one second unit panel.

16. The method of claim 10, wherein the at least one first unit panel is oriented at about 180° with respect to the at least one second unit panel.

17. The method of claim 10, wherein the at least one first unit panel is oriented at about 270° with respect to the at least one second unit panel.

18. The method of claim 10, further comprising applying an alignment process to the at least one first unit panel.

19. The method of claim 20, wherein the alignment process includes a photo alignment process.

20. The method of claim 19, wherein the photo alignment process includes exposure to UV light.

21. The method of claim 10, further comprising applying an alignment process to the at least one second unit panel.

22. The method of claim 21, wherein the alignment process includes a photo alignment process.

23. The method of claim 22, wherein the photo alignment process includes exposure to UV light.

24. The method of claim 10, further comprising applying a physical alignment process to the at least one first unit panel and the at least one second unit panel.

25. The method of claim 24, wherein the physical alignment process includes a rubbing process.

26. The method of claim 10, further comprising:

forming first alignment grooves in the at least one first unit panel; and

forming second alignment grooves in the at least one second unit panel.

27. The method of claim 26, wherein the first and second alignment grooves are substantially parallel.

28. The method of claim 26, wherein the first alignment grooves are not substantially parallel to the second alignment grooves.

29. The method of claim 28, wherein the first alignment grooves are substantially perpendicular to the second alignment grooves.

30. The method of claim 26, wherein the alignment grooves of at least one of the at least one first unit panel and the at least one second unit panel are not parallel to alignment grooves of others of the at least one first and second unit panels.

31. The method of claim 10, wherein the at least one first unit panel and the at least one second unit panel are constituent unit panels of LCD panels of like liquid crystal mode.

32. The method of claim 10, wherein the at least one first unit panel and the at least one second unit panel are constituent unit panels of LCD panels of different liquid crystal modes.

33. The method of claim 10, wherein the at least one first unit panel is a constituent unit panel of a vertical alignment (VA) mode LCD panel.

34. The method of claim 10, wherein the at least one second unit panel is a constituent unit panel of a vertical alignment (VA) mode LCD panel.

35. The method of claim 10, wherein at least one of the at least one first unit panel and the at least one second unit panel is a constituent unit panel of an in-plane switching (IPS) mode LCD panel.

36. The method of claim 10, wherein at least one of the at least one first unit panel and the at least one second unit panel is a constituent unit panel of a twisted nematic (TN) mode LCD panel.

37. The method of claim 10, wherein at least one of the at least one first unit panel and the at least one second unit panel is a constituent unit panel of a super twisted nematic (STN) mode LCD panel.

38. The method of claim 10, wherein the at least one first unit panel and the at least one second unit panel are constituent unit panels of LCD panels having substantially the same color reproduction ratio.

39. The method of claim 10, wherein at least one of the at least one first unit panel and the at least one second unit panel is asymmetrically arranged within the base substrate.

40. The method of claim 10, wherein at least one of the at least one first unit panel and the at least one second unit panel is symmetrically arranged within the base substrate.

41. The method of claim 10, further comprising;
designating a plurality of areas of the base substrate for inspection of the at least one first and second unit panels as coordinates;
scanning an entirety of the at least one first and second unit panels; and
inspecting the plurality of areas designated coordinates.

42. The method of claim 10, wherein a pitch of the at least one first unit panel is different from a pitch of the at least one second unit panel.

43. A method for fabricating a unit panel of an LCD panel, comprising:

providing a mask having a first region and a second region, wherein the first region includes a first mask pattern and the second region includes a second mask pattern;

providing a base substrate; and

forming at least one first unit panel and at least one second unit panel on the base substrate using the first mask pattern and second mask pattern, respectively, wherein the at least one second unit panel is of a different size than the at least one first unit panel.

44. The method of claim 43, wherein the first mask pattern includes a repeat region and a non-repeat region.

45. The method of claim 43, wherein a size of the first region is substantially the same size of the second region.

46. The method of claim 43, wherein a size of the first region is greater than a size of the second region.

47. The method of claim 43, wherein a size of the first region is less than a size of the second region.

48. The method of claim 43, wherein the second region is arranged in portions of the mask not occupied by the first region.

49. The method of claim 43, wherein the at least one first unit panel is larger than the first mask pattern.

50. The method of claim 43, wherein the at least one first unit panel is larger than the at least one second unit panel.

51. The method of claim 43, wherein the at least one first unit panel is oriented at about 0° with respect to the at least one second unit panel.

52. The method of claim 43, wherein the at least one first unit panel is oriented at about 90° with respect to the at least one second unit panel.

53. The method of claim 43, wherein the at least one first unit panel is oriented at about 180° with respect to the at least one second unit panel.

54. The method of claim 43, wherein the at least one first unit panel is oriented at about 270° with respect to the at least one second unit panel.

55. The method of claim 43, further comprising applying an alignment process to the at least one first unit panel.

56. The method of claim 55, wherein the alignment process includes a photo alignment process.

57. The method of claim 56, wherein the photo alignment process includes exposure to UV light.

58. The method of claim 43, further comprising applying an alignment process to the at least one second unit panel.

59. The method of claim 58, wherein the alignment process includes a photo alignment process.

60. The method of claim 59, wherein the photo alignment process includes exposure to UV light.

61. The method of claim 43, further comprising applying a physical alignment process to the at least one first unit panel and the at least one second unit panel.

62. The method of claim 61, wherein the physical alignment process includes a rubbing process.

63. The method of claim 43, further comprising:

forming first alignment grooves in the at least one first unit panel; and

forming second alignment grooves in the at least one second unit panel.

64. The method of claim 63, wherein the first and second alignment grooves are substantially parallel.

65. The method of claim 63, wherein the first alignment grooves are not substantially parallel to the second alignment grooves.

66. The method of claim 65, wherein the first alignment grooves are substantially perpendicular to the second alignment grooves.

67. The method of claim 63, wherein the alignment grooves of at least one of the at least one first unit panel and the at least one second unit panel are not parallel to alignment grooves of others of the at least one first and second unit panels.

68. The method of claim 43, wherein the at least one first unit panel and the at least one second unit panel are constituent unit panels of LCD panels of like liquid crystal mode.

69. The method of claim 43, wherein the at least one first unit panel and the at least one second unit panel are constituent unit panels of LCD panels of different liquid crystal modes.

70. The method of claim 43, wherein the at least one first unit panel is a constituent unit panel of a vertical alignment (VA) mode LCD panel.

71. The method of claim 43, wherein the at least one second unit panel is a constituent unit panel of a vertical alignment (VA) mode LCD panel.

72. The method of claim 43, wherein at least one of the at least one first unit panel and the at least one second unit panel is a constituent unit panel of an in-plane switching (IPS) mode LCD panel.

73. The method of claim 43, wherein at least one of the at least one first unit panel and the at least one second unit panel is a constituent unit panel of a twisted nematic (TN) mode LCD panel.

74. The method of claim 43, wherein at least one of the at least one first unit panel and the at least one second unit panel is a constituent unit panel of a super twisted nematic (STN) mode LCD panel.

75. The method of claim 43, wherein the at least one first unit panel and the at least one second unit panel are constituent unit panels of LCD panels having substantially the same color reproduction ratio.

76. The method of claim 43, wherein at least one of the at least one first unit panel and the at least one second unit panel is asymmetrically arranged within the base substrate.

77. The method of claim 43, wherein at least one of the at least one first unit panel and the at least one second unit panel is symmetrically arranged within the base substrate.

78. A liquid crystal display unit panel mask, comprising:

a mask pattern, wherein the mask pattern includes:

a first region for forming a first end portion of a unit panel of a liquid crystal display device;

a second region for forming a second end portion of the unit panel; and

a third region for forming an active portion of the unit panel, wherein the active region separates the first end portion from the second end portion and wherein the unit panel is larger than the mask pattern.